FEB 1 4 2001

K003566

A 510(k) Summary of Safety and Effectiveness

Submitter's name:

Smith & Nephew, Inc., Orthopaedic Division

Submitter's address:

1450 Brooks Road, Memphis, TN 38116

Submitter's telephone number:

901-399-6487

Contact person:

David Henley, Clinical/Regulatory Affairs Specialist II

Date summary prepared:

November 17, 2000

Trade or proprietary device name:

Cofield² Eccentric and Lateral Offset Humeral Heads

Common or usual name:

Shoulder Joint Prosthesis

Classification name:

21 CFR 888.3660, shoulder joint metal/polymer, semi-

constrained cemented prosthesis - Class II

Substantially Equivalent Legally Marketed Devices

Aegualis™ Shoulder System – Tornier, S.A.

Bigliani / Flatow™, The Complete Shoulder Solution – Zimmer, Inc.

Device Description

Cofield² Eccentric and Lateral Offset Humeral Heads are manufactured from forged cobalt chrome (CoCr) material (ASTM F799) and are designed for use with existing cobalt chrome humeral stem components from the Cofield2 Total Shoulder System previously cleared from market.

Device Intended Use

The subject humeral head devices will be mated with approved humeral stem components from the Cofield² Total Shoulder System previously cleared for market under K955767. Cofield² Eccentric and Lateral Offset Humeral Heads are indicated for use as orthopedic implants for the partial or total replacement of the human shoulder joint articulating either directly against the glenoid face or a compatible glenoid component, respectively. Cofield² Eccentric and Lateral Offset Humeral Heads are intended for use with bone cement only (cemented fixation) and for single use only. Cofield² Eccentric and Lateral Offset Humeral Heads are intended for the following indications:

Proximal Humeral Prosthesis - (1) complex, acute fractures or fracture-dislocations of the humeral head (e.g. trauma - three and four-part injuries in the Neer classification, or head splitting, or head impression fractures); (2) complex, chronic fractures or fracture-dislocations of the humeral head with malunion, non-union of a small osteoporotic head fragment, or chronic dislocation with loss of humeral head cartilage, or large impression fractures; (3) avascular necrosis with intact glenoid cartilage; and (4) selected patients with arthritis who do not have adequate scapular bone to support a glenoid component or must engage in moderately heavy activities.

Total Shoulder Arthroplasty (when used in conjunction with a compatible glenoid component) severe destruction of the glenohumeral articular surfaces with intractable chronic pain in rheumatoid arthritis, osteoarthritis, traumatic arthritis, cuff tear arthroplasty, ancient septic arthritis, avascular necrosis with secondary glenoid changes, radiation necrosis, and other failed reconstructive

procedures.

The assembled humeral stem component (including either an eccentric or an offset humeral head) may be used alone for hemiarthroplasty or combined with a Cofield² Total Shoulder System glenoid component for use in total shoulder arthroplasty.

Technological Characteristics:

Cofield² Eccentric and Lateral Offset Humeral Heads are similar to the legally marketed predicate devices listed above. All of these devices are indicated for total shoulder arthroplasty or hemiarthroplasty, are similar in design to the Cofield² Eccentric and Lateral Offset Humeral Heads and have the same technological characterisitcs.

Performance Characterisitcs:

Mechanical humeral head distraction testing was performed on these devices and met or exceeded acceptable performance. Data indicate that the Cofield² Eccentric and Lateral Offset Humeral Heads are substantially equivalent to legally marketed devices.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

FEB 1 4 2001

Mr. David Henley Clinical/regulatory Affairs Specialist Smith & Nephew, Inc. 1450 Brooks Road Memphis, Tennessee 38116

Re: K003566

Trade Name: Cofield² Eccentric and Lateral Offset Humeral Heads

Regulatory Class: II Product Code: KWS

Dated: November 17, 2000 Received: November 20, 2000

Dear Mr. Henley:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the current Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic (QS) inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for <u>in vitro</u> diagnostic devices), please contact the Office of Compliance at (301) 594-4659. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or at (301) 443-6597, or at its Internet address "http://www.fda.gov/cdrh/dsmamain.html".

Sincerely yours,

Celia M. Witten, Ph.D., M.D.

Director

Division of General, Restorative and

Neurological Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

Premarket Notification Indications Enclosure

510(k) Number (if known): <u>K0035-66</u>

Device Name: Cofield2 Eccentric and Offset Humeral Heads

Indications for Use:

When used with an appropriate humeral stem from the Cofield² Total Shoulder System, Cofield² Eccentric and Offset Humeral Heads are indicated for use as orthopedic implants for the partial or total replacement of the human shoulder joint articulating either directly against the glenoid face or a compatible glenoid component, respectively. When used with an appropriate humeral stem, Cofield² Eccentric and Offset Humeral Heads are intended for use with bone cement only (cemented fixation) and for single use only. Cofield² Eccentric and Offset Humeral Heads are intended for the following indications:

<u>Proximal Humeral Prosthesis</u> – (1) complex, acute fractures or fracture-dislocations of the humeral head (e.g. trauma – three and four-part injuries in the Neer classification, or head splitting, or head impression fractures); (2) complex, chronic fractures or fracture-dislocations of the humeral head with malunion, non-union of a small osteoporotic head fragment, or chronic dislocation with loss of humeral head cartilage, or large impression fractures; (3) avascular necrosis with intact glenoid cartilage; and (4) selected patients with arthritis who do not have adequate scapular bone to support a glenoid component or must engage in moderately heavy activities.

<u>Total Shoulder Arthroplasty</u> (when used in conjunction with a compatible glenoid component) – severe destruction of the glenohumeral articular surfaces with intractable chronic pain in rheumatoid arthritis, osteoarthritis, traumatic arthritis, cuff tear arthroplasty, ancient septic arthritis, avascular necrosis with secondary glenoid changes, radiation necrosis, and other failed reconstructive procedures.

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off)

Division of General, Restorative and Neurological Devices

510(k) Number <u>K0035766</u>

Prescription Use Ver (Per 21 CFR 801.109)

OR

Over-the-Counter Use 1/2-96)